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J3/03-110

Date: 09 February 2003
To: J3
From: Aleksandar Donev
Subject: Pointer assignment deficiency
Reference: J3-007r3, continuing 02-295r3

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Summary

Polymorphic objects of CLASS(My_Type) need to occasionally be used in places where a non-polymorphic object of the declared type TYPE(My_Type) is needed. The present standard allows these to be intermixable in certain occasions, such as argument association (see 265:6) and assignment (see 139:8, and also 73:35), but not in others, notably, in pointer assignment (see 143:1). This is very evidently an inconsistency and needs to be fixed.

The problem

One cannot at present do:

```
TYPE(base_type), POINTER :: non_polymorphic
CLASS(base_type), POINTER :: polymorphic

non_polymorphic=>polymorphic
```

because of C716.

Edits

142:35: Delete C716 (C717 at 143:1 is enough)